

What is claimed is:

1. A method for the electrostatic support of the coating of objects (3) with a coating material (15), characterized in that at least one field producing electrode (9; 29) during the coating process is set into vibration at least at times and preferably constantly.
2. A method according to claim 1, further characterized in that the objects (3) are moved past the stationary vibrating electrode (9; 29) and in particular are can sides the inner seam regions of which are coated, especially with a powder form of coating material.
3. A method according to claim 1 or 2, further characterized in that the electrode is constructed as a vibratable element (9) and is excited into vibration by an exciting means (17).
4. A method according to claim 3, further characterized in that the electrode is excited into vibration by an air stream (17), especially a cleaning air stream.
5. A method according to claim 4, further characterized in that the electrode (9) is leaf shaped and especially tongue shaped and is arranged at the opening (25') of a resonance space (25), and in that the air (17) is guided through a gap (19) between the electrode (9) and the opening (25').
6. A method according to claim 1 or 2, further characterized in that the electrode (29) is made as a rigid element which is oscillated by a drive means (30).
7. A method according to claim 6, further characterized in that the electrode (29) is immersed in a stream of cleaning air.
8. A method for the electrostatic support of the coating of moving objects (3) with a coating material, with an electrode arrangement (6) arranged stationary and spaced from the objects and including at least one electrode (39), characterized in that the electrode (39) during the coating is movably driven at

times, especially by being driven in rotational movement about a rotational axis (E).

9. A method according to claim 8, further characterized in that the electrode (39) is moved by an air stream (17) or electromotively.

10. A electrode arrangement (6) for the creation of an electric field in an electrostatically supported coating apparatus, characterized in that the arrangement (6) has at least one vibrationally moveable electrode (9; 29).

11. An electrode arrangement according to claim 10, further characterized in that the electrode is formed as a flexible electrode (9) capable of being excited into vibration, especially an electrode (9) excitable into vibration by an air stream.

12. An electrode arrangement according to claim 11, further characterized in that the electrode (9) is essentially of leaf shape, especially of tongue shape, and is fixed at one end.

13. An electrode arrangement according to one of claims 1 to 12, further characterized in that the electrode is fastened at the opening (25') of a space (25) of the arrangement so as to form an air gap (19), which space (25) is connected to an air inlet of the arrangement (6).

14. An electrode arrangement according to claim 10, further characterized in that the electrode (29) is formed as an essentially rigid electrode, especially as a pointed electrode, which is fastened on or to a vibrator element (30).

15. An electrode arrangement (36) for creating an electric field in the electrostatic support of a coating apparatus, characterized in that the arrangement (36) includes at least one associated electrode (39) driveably rotatable about a rotation axis.

16. An electrode arrangement according to claim 15, further characterized in that it includes an electromotive drive means or an air stream driven rotatable drive means for the rotational movement.

17. A coating apparatus (1) for the coating of objects (3), especially moving objects, with an electrode arrangement according to one of claims 10 to 16.